

CRYOGENIC TESTING OF LIQUID & SOLID LAYERING CELLS

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Several different types of liquid and solid layering cells have been made that require vacuum leak testing at room temperature and liquid nitrogen temperatures. Most of these cells use a cryogenic epoxy that permeates helium at room temperature. We have designed and built a flexible test apparatus, which allows us to distinguish between permeation through the epoxy and actual leaks. This test also allows us to see leaks that occur only at low temperatures. Pictures and processes will be presented in detail.

Work performed under the auspices of the US Department of Energy by Lawrence Livermore National Laboratory under Contract W-7405-ENG-48 and by W.J. Schafer Associates under Contract DE-AC03-95SF20732.